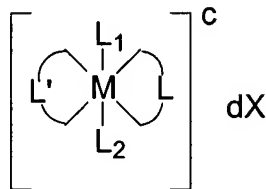


In the Claims:

Please cancel Claim 1 and add Claims 49-73, such that the Claims are as set forth below.

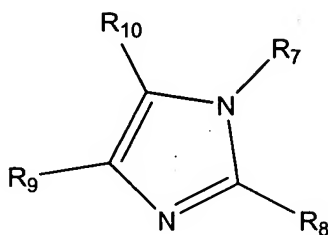
Claims 1-48. (Cancelled)

49. (New) A complex having the formula:



wherein M is osmium;

L₁ has the formula:



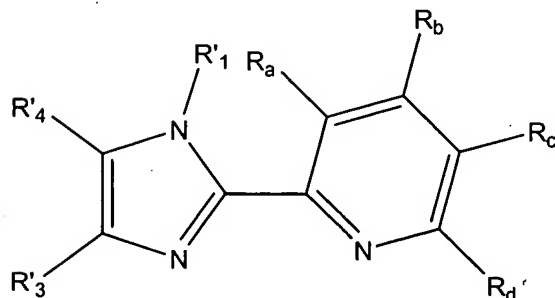
wherein R₇ is a substituted or unsubstituted aryl or a substituted or unsubstituted C1-C12 alkyl;

R₈ is -H or a C1 alkyl; and

a combination of R₉ and R₁₀ forms a fused, saturated or unsaturated, 5- or 6-membered ring;

L₂ is a halide;

L and L' are independently:



wherein R'₁ is a substituted or unsubstituted C1-C6 alkyl;

R'₃ and R'₄ are independently -H; and

R_a, R_b, R_c, and R_d are independently -H or C1 alkyl;

c is a +1 or +2 charge;

X is an anion; and

d is a number of X sufficient to balance the charge c.

50. (New) The complex of claim 49, wherein R₇ is a C5 alkyl.

51. (New) The complex of any one of claims 49 and 50, wherein R₈ is methyl.

52. (New) The complex of any one of claims 49 and 50, wherein a combination of R₉ and R₁₀ forms a fused, saturated or unsaturated, 6-membered ring.

53. (New) The complex of any one of claims 49 and 50, wherein a combination of R₉ and R₁₀ forms a fused, unsaturated, 6-membered ring.

54. (New) The complex of any one of claims 49 and 50, wherein L₂ is -F, -Cl, or -Br.

55. (New) The complex of any one of claims 49 and 50, wherein L₂ is -Cl.

56. (New) The complex of any one of claims 49 and 50, wherein R'₁ is a C1-C2 alkyl.

57. (New) The complex of any one of claims 49 and 50, wherein R'₁ is a C1 alkyl.

58. (New) The complex of any one of claims 49 and 50, wherein each of R_a and R_c is -H.

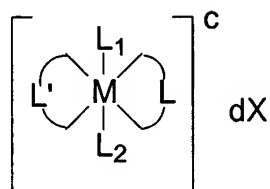
59. (New) The complex of any one of claims 49 and 50, wherein each of R_a, R_b, and R_c is -H.

60. (New) The complex of any one of claims 49 and 50, wherein each of R_a , R_b , R_c , and R_d is $-H$.

61. (New) The complex of any one of claims 49 and 50, wherein X is a halide.

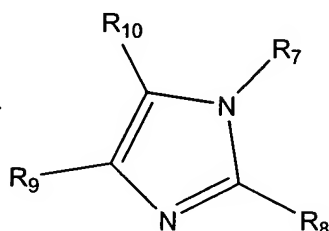
62. (New) The complex of any one of claims 49 and 50, wherein X is chloride.

63. (New) A complex having the formula:



wherein M is osmium;

L_1 has the formula:



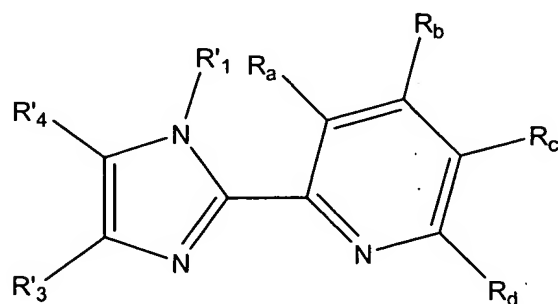
wherein R_7 is a C1-C12 alkyl;

R_8 is $-H$; and

a combination of R_9 and R_{10} forms a fused, unsaturated, 6-membered ring;

L_2 is chloride;

L and L' are independently:



wherein R'_1 is methyl; and

R'_3 , R'_4 , R_a , R_b , R_c , and R_d are independently $-H$;

c is $+2$;

d is 2 ; and

X is chloride.

64. (New) The complex of claim 63, wherein R_7 is a C_5 alkyl.

65. (New) The complex of any one of claims 49, 50, 63, and 64, wherein at least one of L , L' , L_1 and L_2 is coupled to a polymeric backbone.

66. (New) The complex of claim 65, wherein the polymeric backbone comprises at least one functional group that is a ligand of the complex.

67. (New) The complex of claim 66, wherein the functional group is selected from a group consisting of pyridine and imidazole groups.

68. (New) A sensor comprising:
a working electrode;
a counter electrode;
an enzyme disposed proximate to the working electrode; and
the complex of any one of claims 49, 50, 63, and 64 disposed proximate to the working electrode.

69. (New) The sensor of claim 68, wherein the complex is coupled to a polymeric backbone via at least one of L , L' , L_1 and L_2 .

70. (New) The sensor of claim 69, wherein the polymeric backbone comprises at least one functional group that is a ligand of the complex.

71. (New) The sensor of claim 70, wherein the functional group is selected from a group consisting of pyridine and imidazole groups.

72. (New) The sensor of claim 68, wherein the complex is crosslinked on the working electrode.

73. (New) The sensor of claim 68, wherein the complex and the enzyme are crosslinked on the working electrode.